

Title (en)

Robot system and method for controlling robot system

Title (de)

Robotersystem und Verfahren zur Steuerung des Robotersystems

Title (fr)

Système de robot et procédé pour commander un tel système

Publication

**EP 2783800 A3 20160323 (EN)**

Application

**EP 14157180 A 20140228**

Priority

JP 2013052806 A 20130315

Abstract (en)

[origin: EP2783800A2] A robot system (2) of the present disclosure includes: a robot (3) including an operable working arm (4) driven by an actuator (11); an operation load detection unit (5) configured to detect an operation load of the actuator; a region setting unit (6) that sets a region (10) with a predetermined range around the robot; a moving body detection unit (7) configured to detect a position of a moving body (9) other than the robot; and an abnormality determination unit (8) that determines abnormality when detecting of the position of the moving body within the region, wherein the region setting unit changes the range of the region in accordance with the operation load of the actuator.

IPC 8 full level

**B25J 9/16** (2006.01); **G05B 19/4061** (2006.01)

CPC (source: CN EP US)

**B25J 9/1674** (2013.01 - EP US); **B25J 9/1676** (2013.01 - CN EP US); **G05B 19/4061** (2013.01 - EP US); **G05B 2219/40202** (2013.01 - EP US); **G05B 2219/40203** (2013.01 - EP US)

Citation (search report)

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- [A] EP 1901150 A1 20080319 - ABB RESEARCH LTD [CH]
- [A] DE 10324627 A1 20050105 - DAIMLER CHRYSLER AG [DE]
- [A] HENRICH D ET AL: "Modeling Intuitive behavior for safe human/robot coexistence cooperation", 2006 IEEE INTERNATIONAL CONFERENCE ON ROBOTICS AND AUTOMATION (ICRA) : ORLANDO, FLORIDA, 15 - 19 MAY 2006, IEEE OPERATIONS CENTER, PISCATAWAY, NJ, 15 May 2006 (2006-05-15), pages 3929 - 3934, XP010921866, ISBN: 978-0-7803-9505-3, DOI: 10.1109/ROBOT.2006.1642304

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CN109822570A; US11925424B2; WO2021186254A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2783800 A2 20141001**; **EP 2783800 A3 20160323**; **EP 2783800 B1 20230517**; CN 104044141 A 20140917; CN 104044141 B 20160120; JP 2014176933 A 20140925; JP 5835254 B2 20151224; US 2014277724 A1 20140918; US 9162359 B2 20151020

DOCDB simple family (application)

**EP 14157180 A 20140228**; CN 201410019965 A 20140116; JP 2013052806 A 20130315; US 201414207655 A 20140313